From: HOPE Bruce
To: Eric Blischke/R10/USEPA/US@EPA
Subject: RE: Stormwater questions for Tuesday's modeling discussion
Date: 05/31/2006 04:03 PM

Eric,
Yes, this makes sense. I think you should also be aware that you might be on the path to two different food web models - one only for PRGs and the other linked to the T&F/hydro models for the FS. Windward certainly seems keen on developing a FW model only for PRGs. I think that two different FW models for different purposes but about the same river might be as much of a headache as "dueling" models.
Bruce

-----Original Message-----
From: Blischke.Eric@epamail.epa.gov
[mailto:Blischke.Eric@epamail.epa.gov]
Sent: Wednesday, May 31, 2006 3:42 PM
To: HOPE Bruce
Cc: Humphrey.Chip@epamail.epa.gov; jmarsh@parametrix.com
Subject: RE: Stormwater questions for Tuesday's modeling discussion

Bruce, I take your point on the need to move ahead with the fate and transport modeling effort. Because I am unsure of who I talk to when and about what, here is what we are thinking of with respect to the timing of the fate and transport model.

You continue to work on the fate and transport model. Ray Walton and company work in the mechanics of chunking the hydrodynamic model to link up with your fate and transport segments. In the meantime, the LWG moves forward with the "far field" surface water sampling effort and DEQ moves forward with stormwater characterization efforts. The Round 2 Report considers the combined hydrodynamic modeling and fate and transport evaluation to help identify additional data gaps beyond what the LWG and DEQ are getting this fall. To the extent we can identify these in time for a fall 2006 sampling (Round 3A), we will incorporate these data gaps into this fall's work. Otherwise, we will link up the sedimentation piece with the hydrodynamic/fate and transport pieces early next year and collect additional data to support the modeling efforts in 2007 (Round 3B).

Let me know if this makes sense. The key concept is if we can identify data needs wrt fate and transport now (or with minimal evaluation) we would like to go forward and get this information as part of 3A. If it will take more evaluation to identify specific data needs, we will move those data needs into 3B. I think our discussion of fate and transport modeling next Tuesday will focus on identifying 3A data needs and what data needs we should wait on (3B).

Eric

HOPE Bruce
<HOPE.Bruce@deq.
state.or.us>
05/31/2006 02:32
PM

To
Eric Blischke/R10/USEPA/US@EPA
cc
Chip Humphrey/R10/USEPA/US@EPA
Subject
RE: Stormwater questions for Tuesday's modeling discussion

Eric,

I did talk with Karen and Matt about this issue. From the T&F model's perspective, the load can be expressed as total (dissolved + particulate) (in units of kg/year) for a day or over a range of days (stormwater pulse duration). The model will then partition the load into phases based on the characteristics of the receiving water. It would be a luxury to measure the dissolved and particulate (0.45 filterable) fractions separately in order to check the model's partitioning. For other parameters (DOC, TOC, etc.) it's hard to see how those in the stormwater are going to override those in the (considerably larger) receiving water.

A point to be made is that we don't have to wait until next year to proceed with the T&F model. It's eventual use of results from the hydrodynamic model should be viewed as a possible refinement, not the starting point, of it. You could use the T&F model (with minimal calibration) to estimate how big a stormwater pulse (and where) would be needed to be detectable and for how long.

Bruce

-----Original Message-----
From: Blischke.Eric@epamail.epa.gov

[mailto:Blischke.Eric@epamail.epa.gov]
Sent: Wednesday, May 31, 2006 1:19 PM
To: HOPE Bruce
Cc: Humphrey.Chip@epamail.epa.gov
Subject: Fw: Stormwater questions for Tuesday's modeling discussion

Bruce, EPA, DEQ and the City have been having discussions on how to proceed with characterizing stormwater. We are planning on performing some stormwater characterization this coming fall. Right now, the sampling has two primary components: 1) Stormwater catch basin sediments and surface water grabs at various facilities for the purpose of performing screening in accordance with the joint source control strategy; and 2) collecting data to develop loading estimates. In addition, the LWG is planning on performing a "far field" surface water sampling event this fall. The sampling event is designed to detect a pulse of stormwater inputs in response to a rain event when the river levels are still low. We have not identified what additional data relative to loading is also required. We would like to know, from your perspective, what loading information would best feed the fate and transport model. For example, total vs dissolved chemical concentrations, TSS, DOC, TOC, particle size etc. It is unclear to me what discussions you have had (if any) with Karen et. al. This discussion needs to be expanded to include folks such as Ray Walton. We will likely discuss at the F&T portion of Tuesday's meeting. I imagine this to be fairly open discussion. The more difficult aspect is who gets the information.

Eric
----- Forwarded by Eric Blischke/R10/USEPA/US on 05/31/2006 01:05 PM -----

TARNOW Karen E <TARNOW.Karen@deq.state.or.us>
05/31/2006 12:55 PM

To: Eric Blischke/R10/USEPA/US@EPA, Chip Humphrey/R10/USEPA/US@EPA, Kristine Koch/R10/USEPA/US@EPA
cc: MCCLINCY Matt <MCCLINCY.Matt@deq.state.or.us>, ROICK Tom <ROICK.Tom@deq.state.or.us>, JOHNSON Keith <JOHNSON.Keith@deq.state.or.us>, ANDERSON Jim M <ANDERSON.Jim@deq.state.or.us>, Dawn Sanders <DAWNS@BES.CI.PORTLAND.OR.US>, "Applegate, Rick" <RICKA@BES.CI.PORTLAND.OR.US>
Subject: Stormwater questions for Tuesday's modeling discussion

Eric/Chip/Kristine -

To help focus next Tuesday's discussion, here are the questions we're hoping to get answered. Let me know if there's anything more we can do to help move the conversation forward. Thanks

karen

How will stormwater loading data from upland sources in Portland Harbor be used in the RI/FS? What questions are we trying to answer?

What methods will LWG/EPA use to calculate stormwater loading?

What analytical data do we need to support those efforts (i.e., what parameters and how do collect/analyze the data)? For example, if we need to get at the settleable solids issue, do we analyze stormwater samples or look at some other measure of how they behave once discharged?

Are their spatial or temporal considerations, and if so, what are they?

How will that data be obtained? [This isn't necessarily a question that needs to be answered on Tuesday, but we need to queue it up soon if we want to take advantage of Round 3 sampling.]

Karen Tarnow
Portland Harbor Storm Water Coordinator
503-229-5988